Table H-1: 2001 CH₄ Emissions from Petroleum Production Field Operations

	Emission Activity			Emissions
Activity/Equipment	Factor Units	Factor	Units	(Bcf/yr)
Vented Emissions				48.027
Oil Tanks	18 scf of CH ₄ /bbl crude	1,251		22.086
Pneumatic Devices, High Bleed	345 scfd CH ₄ /device	142,872	No. of high-bleed devices	17.998
Pneumatic Devices, Low Bleed	35 scfd CH ₄ /device	265,334	No. of low-bleed devices	3.342
Chemical Injection Pumps	248 scfd CH ₄ /pump	28,595	No. of pumps	2.589
Vessel Blowdowns	78 scfy CH ₄ /vessel		No. of vessels	0.015
Compressor Blowdowns	3,775 scf/yr of CH ₄ /compressor	2,532	No. of compressors	0.010
Compressor Starts	8,443 scf/yr. of CH ₄ /compressor	2,532	No. of compressors	0.021
Stripper wells	2,345 scf/yr of CH ₄ /stripper well	329,434	No. of stripper wells vented	0.818
Well Completion Venting	733 scf/completion	4,731	Oil well completions	0.003
Well Workovers	96 scf CH ₄ /workover	40,050	Oil well workovers	0.004
Pipeline Pigging	2.40 scfd of CH ₄ /pig station	0	No. of crude pig stations	0.000
Offshore Platforms, Gulf of Mexico	1,283 scfd CH ₄ /platform	1,832	No. of oil platforms	0.858
Offshore Platforms, Other U.S. Areas	1,283 scfd CH ₄ /platform	23	No. of oil platforms	0.011
Fugitive Emissions	-		-	2587
Offshore Platforms, Gulf of Mexico	56 scfd CH ₄ /platform	1,832	No. of oil platforms	0.037
Offshore Platforms, Other U.S. Areas	56 scfd CH ₄ /platform	23	No. of oil platforms	0.000
Oil Wellheads (heavy crude)	0.13 scfd/well	14,422	No. of hvy. crude wells *	0.001
Oil Wellheads (light crude)	16.6 scfd/well		No. of lt. crude wells *	1.045
Separators (heavy crude)	0.15 scfd CH ₄ /separator	10,972	No. of hvy. crude seps.	0.001
Separators (light crude)	14 scfd CH ₄ /separator		No. of lt. crude seps.	0.505
Heater/Treaters (light crude)	19 scfd CH ₄ /heater	75,716	No. of heater treaters	0.530
Headers (heavy crude)	0.08 scfd CH ₄ /header	13,929	No. of hvy. crude hdrs.	0.000
Headers (light crude)	11 scfd CH ₄ /header		No. of lt. crude hdrs.	0.171
Floating Roof Tanks	338,306 scf CH ₄ /floating roof tank/yr.		No. of floating roof tanks	0.008
Compressors	100 scfd CH ₄ /compressor		No. of compressors	0.092
Large Compressors	16,360 scfd CH ₄ /compressor		No. of large comprs.	0.000
Sales Areas	41 scf CH ₄ /loading		Loadings/year	0.071
Pipelines	0 scfd of CH ₄ /mile of pipeline		Miles of gathering line	0.000
Well Drilling	0 scfd of CH ₄ /oil well drilled		No. of oil wells drilled	0.000
Battery Pumps	0.24 scfd of CH ₄ /pump	160,200	No. of battery pumps	0.014
Combustion Emissions	• • •			4.186
Gas Engines	0.24 scf CH ₄ /HP-hr	15,950	MMHP-hr	3.828
Heaters	0.52 scf CH ₄ /bbl	2117.4	MBbl/yr	0.001
Well Drilling	2,453 scf CH ₄ /well drilled		Oil wells drilled, 1995	0.018
Flares	20 scf CH ₄ per Mcf flared		Mcf flared/yr	0.010
Offshore Platforms, Gulf of Mexico	481 scfd CH ₄ /platform		No. of oil platforms	0.325
Offshore Platforms, Other U.S. Areas	481 scfd CH ₄ /platform		No. of oil platforms	0.004
Process Upset Emissions	→ 		r	0.561
Platform Emergency Shutdowns	256,888 scfy/platform	1.875	No. of platforms	0.482
Pressure Relief Valves	35 scf/yr/PR valve		No. of PR valves	0.006
Well Blowouts Offshore	5.0 MMscf/blowout		No. of blowouts/yr	0.011
Well Blowouts Onshore	2.5 MMscf/blowout		No. of blowouts/yr	0.062
Total (excluding stripper wells)				55.36